**Information Disclosure Statement** 

Attorney Docket No. EI-7592 Serial No: 10/623,092

# **TRANSMITTAL**

pplication of: TRAJOSeph W. ROOS et al. Serial Number: 10/623,092

Filed: July 18, 2003

Method of Lowering Amount of Carbon For:

in Fly Ash from Burning Coal by a Manganese Additive to the Coal

#### CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first-class U.S. Mail on April 27, 2004 with sufficient postage in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Confirmation No.: 2887

Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Sir:

Transmitted herewith are the following in the subject application:

Information Disclosure Statement (no fee) Form PTO/SB/08A listing 80 references and attaching 25 references Return Postcard (attached hereto, but not stapled)

It is believed that there are no fees associated with this filing. However, in the event the calculations are incorrect, the Commissioner is hereby authorized to charge any deficiencies in fees or credit any overpayment associated with this communication to Deposit Account No. 05-1372. A duplicate copy of this sheet is attached.

Respectfully submitted,

ETHYL PETROLEUM ADDITIVES, INC.

Leah O. Robinson, Reg. No. 44,990

330 South Fourth Street Richmond, VA 23219 Phone: 804-788-5498 FAX: 804-788-5519

Date: April 27, 2004



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Patent Application of:	)
Joseph W. ROOS et al.	
Application No.: 10/623,092	Confirmation No.: 2887
Filed: July 18, 2003	) )
For: Lowering the Amount of Carbon	) }
in Fly Ash from Burning Coal by a	j j
Manganese Additive	)
to the Coal	

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

# **INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97**

Sir:

Pursuant to the duty of disclosure, Applicants submit herewith information which may be material to the examination of the above-captioned application.

Specifically, the information comprises references that have become known to Applicants and their attorneys. Those references are listed on the enclosed Form PTO/SB/08A. Copies of the foreign patents and literature document are attached.

It is respectfully requested that these references be fully considered in their entirety, and that the references be made of record in the above-captioned application. It is also respectfully requested that the Examiner initial in the appropriate area on the enclosed Form PTO/SB/08A, thereby indicating the Examiner's consideration of each of the references.

#### <u>Fees</u>

As this Information Disclosure Statement is submitted before the date of a first Office Action on the merits, it is believed that no fees are due. However, in the event the calculations are incorrect, the Commissioner is hereby authorized to charge any deficiencies in fees or credit any overpayment associated with this communication to Deposit Account No. 05-1372.

### Conclusion

It is believed that all provisions of 37 CFR 1.97 have been complied with, and consideration of these references is most respectfully requested.

Respectfully Submitted,

ETHYL PETROLEUM ADDITIVES, INC.

Leah O. Robinson, Reg. No. 44,990

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FAX: 804-788-5519

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APR 2 9 2004

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Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

1 of 5 Sheet

7	Complete if Known	)
Application Number	10/623,092	
Filing Date	July 18, 2003	
First Named Inventor	Joseph W. Roos	
Group Art Unit	1755	
Examiner Name	Not Assigned	
Attorney Docket Number	EI-7592	

			U.S. PATENT DOCU	MENTS	
Examiner Initials *	Cite No. <sup>1</sup>	Number  U.S. Patent Document  Kind Code²  (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevar Passages or Relevant Figures Appear
		US 6,361,754 B1	Peter-Hoblyn et al.	3/26/2002	
		US 6,200,358 B1	Fleischer et al.	3/13/2001	
		US 6,193,767 B1	Arters et al.	2/27/2001	
		6,152,972	Shustorovich et al.	11/28/2000	
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		5,928,392	Aradi	7/27/1999	
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		5,809,774	Peter-Hoblyn et al.	9/22/1998	
. •		5,758,496	Rao et al.	6/2/1998	

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Examiner Cite Initials* No.1	Cite	For	eign Patent Docui	ment	Name of Patentee or Applicant of Cited Document	Date of Publication of	Pages, Columns, Lines, Where Relevant		
		Office <sup>3</sup>	MIIIMANAT'	ind Code <sup>5</sup> <i>if known</i> )		Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	T <sub>6</sub> _	
A. ALA		EP	0 466 512	B1	Leeper	06/29/1994			
		EP	0 507 510	A1	Hollrah et al	10/07/1992			
		EP	0 667 387	A2	Perry et al	08/16/1995			
		EP	0 668 899	B1	Peter-Hoblyn et al	09/20/2000			

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Examiner Signature		Date Considered	

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<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark hee if English language Translation is attached.

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of 5

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EI-7592

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449A/PTO **Application Number** 10/623,092 INFORMATION DISCLOSURE Filing Date July 18, 2003 STATEMENT BY APPLICANT Joseph W. Roos First Named Inventor 1755 **Group Art Unit** (use as many sheets as necessary) **Not Assigned Examiner Name** 

**Attorney Docket Number** 

	_			U.S. PATENT DOCU	MENTS	
Examiner Cite No.1		U.S. Patent Document  Kind Code <sup>2</sup> Number  (if known)		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Releva Passages or Relevant Figures Appear
		5,732,548		Peter-Hoblyn	3/31/1998	
		5,679,116		Cunningham et al.	10/21/1997	
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		4,568,357		Simon	2/4/1986	

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Examiner Initials*	Cite No.1	Office <sup>3</sup>	Foreign Patent Document  Office <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sub>6</sub>
		EP	1 368 444	A1	Roos et al.	12-10-2003		
		WO	02/48293	A1	Roos et al.	06-20-2002		
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Signature	Considered

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INFORMATION DISCLOSURE				Application Number	10/623,092				
INFO	DRMATI	ON DIS	CLOSURE	Filing Date	July 18, 2003				
STATEMENT BY APPLICANT				First Named Inventor	Joseph W. Roos				
				Group Art Unit	1755				
	(use as mar	y sheets as	necessary)	Examiner Name	Not Assigned				
Sheet	3	of	5	Attorney Docket Number	EI-7592				

			U.S. PATENT DOCU	MENTS	
Examiner Initials *	Cite No.1	U.S. Patent Document  Number  Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevar Passages or Relevant Figures Appear
		4,474,580	MacKenzie et al.	10/2/1984	
	I	4,390,345	Somorjai	6/28/1983	
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		6,039,772	Orr	3/21/2001	
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FOREIGN PATENT DOCUMENTS									
Cumminan	Cian	For	eign Patent Do	ocument	Name of Patentee	Date of Publication of	Pages, Columns, Lines,		
Examiner Initials*	Cite No. <sup>1</sup>	Office <sup>3</sup>	Number⁴	Kind Code <sup>5</sup> ( <i>if known</i> )	or Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	Te	
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Substitute for form 1449A/PTO Complete if Known 10/623,092 **Application Number INFORMATION DISCLOSURE** July 18, 2003 Filing Date STATEMENT BY APPLICANT First Named Inventor Joseph W. Roos 1755 **Group Art Unit** (use as many sheets as necessary) **Not Assigned Examiner Name** of El-7592 Sheet **Attorney Docket Number** 

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Τ2
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		Eolys™ Fuel-Borne Catalyst for Diesel Particulates Abatement: A Key Component of an Integrated System, DieselNet Technical Report, Sept. 1999, pp.1-9.	
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Examiner	Date	
Signature	Considered	J

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		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
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		Nelson, A.J.; Ferreira, J.L.; Reynolds, J.G.; Schwab, S.D.; and Roos, J.W.; X-Ray Absorption Characterization of Diesel Exhaust Particulates; Article in Materials Research Society Symposium Proceedings, Vol. 590, 2000, pp. 63-69	
·		Stultz, S.C., Kitto, J.B., Editors; "NOx Formation conditions"; Babcock & Wilcox, a McDermott Company: Steam, its generation and use. 40th ed., p. 34-4 to 34-9. 1992.	
		MILLER, R. et al., "A Super-Extended Zel'dovich Mechanism for NOx modeling and Engine Calibration," SAE Technical Paper 980781, 1998.	

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Examiner		Date	
Signature		Considered	

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